

Welcome to DialogClassic Web(tm)

Dialog level 04.12.02D

Last logoff: 13sep04 13:05:21

Logon file001 16sep04 15:35:15

*** ANNOUNCEMENT ***

--Connect Time joins DialUnits as pricing options on Dialog.
See HELP CONNECT for information.

--SourceOne patents are now delivered to your email inbox
as PDF replacing TIFF delivery. See HELP SOURCE1 for more
information.

--Important Notice to Freelance Authors--
See HELP FREELANCE for more information

NEW FILES RELEASED

***F-D-C Gold/Silver Sheet (File 184)

***BIOSIS Toxicology (File 157)

***IPA Toxicology (File 153)

UPDATING RESUMED

RELOADED

***Toxfile (File 156)

REMOVED

>>> Enter BEGIN HOMEBASE for Dialog Announcements <<<
>>> of new databases, price changes, etc. <<<

KWIC is set to 50.

HILIGHT set on as ' '

* * * * *

File 1:ERIC 1966-2004/Jul 21

(c) format only 2004 The Dialog Corporation

Set Items Description

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Cost is in DialUnits

?

B 155, 5, 73

16sep04 15:35:36 User259876 Session D670.1

\$0.73 0.210 DialUnits File1

\$0.73 Estimated cost File1

\$0.08 INTERNET

\$0.81 Estimated cost this search

\$0.81 Estimated total session cost 0.210 DialUnits

SYSTEM:OS - DIALOG OneSearch

File 155:MEDLINE(R) 1951-2004/Sep W2

(c) format only 2004 The Dialog Corp.

***File 155: Medline has been reloaded. Accession numbers**
have changed. Please see HELP NEWS 154 for details.

File 5:Biosis Previews(R) 1969-2004/Sep W2

(c) 2004 BIOSIS

File 73:EMBASE 1974-2004/Sep W2

(c) 2004 Elsevier Science B.V.

Set Items Description

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?

S (SEQUENCE OR SITE) (W) (SPECIFIC (W) RECOMBINATION)

1520212 SEQUENCE

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1163619 SITE
2604188 SPECIFIC
122101 RECOMBINATION
S1 3444 (SEQUENCE OR SITE) (W) (SPECIFIC (W) RECOMBINATION)
?
S (INT (W) RECOMBINASE) OR (LAMBDA (W) INTEGRASE)
16471 INT
7692 RECOMBINASE
14 INT(W) RECOMBINASE
76537 LAMBDA
6006 INTEGRASE
313 LAMBDA(W) INTEGRASE
S2 327 (INT (W) RECOMBINASE) OR (LAMBDA (W) INTEGRASE)
?
S S2 (S) (MAMMALIAN OR EUKARYOTIC OR MOUSE OR HUMAN)
327 S2
319440 MAMMALIAN
84601 EUKARYOTIC
1547936 MOUSE
20305096 HUMAN
S3 24 S2 (S) (MAMMALIAN OR EUKARYOTIC OR MOUSE OR HUMAN)
?
S S3 AND S1
24 S3
3444 S1
S4 18 S3 AND S1
?
RD
...completed examining records
S5 7 RD (unique items)
?
T S5/3,K/ALL

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5/3,K/1 (Item 1 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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15564479 PMID: 14687564

Phage integrases: biology and applications.

Groth Amy C; Calos Michele P

Department of Genetics, Stanford University School of Medicine, Stanford, CA 94305-5120, USA.

Journal of molecular biology (England) Jan 16 2004, 335 (3) p667-78, ISSN 0022-2836 Journal Code: 2985088R

Contract/Grant No.: DK58187; DK; NIDDK; HL68112; HL; NHLBI

Document type: Journal Article; Review; Review, Tutorial

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Phage integrases are enzymes that mediate unidirectional **site - specific recombination** between two DNA recognition sequences, the phage attachment site, attP, and the bacterial attachment site, attB. Integrases may be grouped into two major families, the...

... serine family are larger, use a catalytic serine for strand cleavage, recognize shorter attP sequences, and do not require host cofactors. Phage integrases mediate efficient **site - specific recombination** between two different sequences that are relatively short, yet long enough to be specific on a genomic scale. These properties give phage integrases growing importance for the genetic manipulation of living **eukaryotic** cells, especially those with large genomes such as mammals and most plants, for which there are few tools for precise manipulation of the genome. Integrases of the serine family have been shown to work efficiently in **mammalian** cells, mediating efficient integration at introduced att sites

or native sequences that have partial identity to att sites. This reaction has applications in areas such...

5/3,K/2 (Item 2 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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14438326 PMID: 10435105

Minicircle: an improved DNA molecule for in vitro and in vivo gene transfer.

Darquet A M; Rangara R; Kreiss P; Schwartz B; Naimi S; Delaere P; Crouzet J; Scherman D

UMR 133 CNRS/Rhone-Poulenc Rorer, Vitry sur Seine, France.

Gene therapy (ENGLAND) Feb 1999, 6 (2) p209-18, ISSN 0969-7128

Journal Code: 9421525

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... marker. They are thus smaller and potentially safer than the standard plasmids currently used in gene therapy. They were obtained in E. coli by att site - specific recombination mediated by the phage lambda integrase, which was used to excise the expression cassette from the unwanted plasmid sequences. We produced two minicircles containing the luciferase or beta-galactosidase gene under the control of the strong human cytomegalovirus immediate-early enhancer/promoter. Comparing maximal differences, these minicircles gave 2.5 to 5.5 times more reporter gene activity than the unrecombined plasmid in the NIH3T3 cell line and rabbit smooth muscle cells. Moreover, injection in vivo into mouse cranial tibial muscle, or human head and neck carcinoma grafted in nude mice resulted in 13 to 50 times more reporter gene expression with minicircles than with the unrecombined plasmid...

5/3,K/3 (Item 3 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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13776030 PMID: 9472558

A new DNA vehicle for nonviral gene delivery: supercoiled minicircle.

Darquet A M; Cameron B; Wils P; Scherman D; Crouzet J

UMR 133 CNRS/Rhone-Poulenc Rorer, Vitry sur Seine, France.

Gene therapy (ENGLAND) Dec 1997, 4 (12) p1341-9, ISSN 0969-7128

Journal Code: 9421525

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

... not have such elements and are consequently safer as they exhibit a high level of biological containment. They are obtained in E. coli by att site - specific recombination mediated by the phage lambda integrase. The desired eukaryotic expression cassette, bounded by the lambda attP and attB sites was cloned on a recombinant plasmid. The expression cassette was excised in vivo after thermoinduction...

5/3,K/4 (Item 4 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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11715828 PMID: 11892009

Genetic manipulation of mouse embryonic stem cells by mutant lambda

integrase .

Christ Nicole; Droge Peter

Institute of Genetics, University of Cologne, Cologne, Germany.

Genesis (New York, N.Y. - 2000) (United States) Mar 2002, 32 (3)

p203-8, ISSN 1526-954X Journal Code: 100931242

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Genetic manipulation of mouse embryonic stem cells by mutant lambda integrase .

Mutant lambda integrases catalyze site - specific recombination reactions inside mammalian cells. Here we demonstrate that the integrase system can be used to eliminate resistance marker genes from the genome of mouse embryonic...

... of the resistance gene led to the expression of enhanced green fluorescence protein, which served as a means to sort out cells that had undergone site - specific recombination . Southern analysis and DNA sequencing confirmed that strand exchange reactions had occurred in the genome as expected. Hence, the integrase system may be used in...

5/3,K/5 (Item 5 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10626397 PMID: 10698624

Site - specific recombination in human cells catalyzed by phage lambda integrase mutants.

Lorbach E; Christ N; Schwikardi M; Droge P

Institute of Genetics, University of Cologne, Weyertal 121, Cologne, D-50931, Germany.

Journal of molecular biology (ENGLAND) Mar 10 2000, 296 (5) p1175-81, ISSN 0022-2836 Journal Code: 2985088R

Document type: Journal Article

Languages: ENGLISH

Main Citation Owner: NLM

Record type: Completed

Site - specific recombination in human cells catalyzed by phage lambda integrase mutants.

... 218 (E174 K/E218 K), which do not require accessory factors, are proficient to perform intramolecular integrative and excisive recombination in co-transfection assays inside human cells. Intramolecular integrative recombination is also detectable by Southern analysis in human reporter cell lines harboring target sites attB and attP as stable genomic sequences. Recombination by wild-type Int, however, is not detectable by this method. The latter result implies that eukaryotic co-factors, which could functionally replace the prokaryotic ones normally required for wild-type Int, are most likely not present in human cells. Copyright 2000 Academic Press.

5/3,K/6 (Item 6 from file: 155)

DIALOG(R) File 155:MEDLINE(R)

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10436898 PMID: 10532317

Site - specific recombination in mammalian cells expressing the Int recombinase of bacteriophage HK022.

Kolot M; Silberstein N; Yagil E

Department of Biochemistry, Tel-Aviv University, Israel.

Molecular biology reports (NETHERLANDS) Aug 1999, 26 (3) p207-13,

ISSN 0301-4851 Journal Code: 0403234
 Document type: Journal Article
 Languages: ENGLISH
 Main Citation Owner: NLM
 Record type: Completed

Site - specific recombination in mammalian cells expressing the Int recombinase of bacteriophage HK022.

... and mouse embryo fibroblast cells (NIH3T3) transiently transfected with the recombinant plasmid express the integrase protein. Co-transfection of this plasmid with reporter plasmids for site - specific recombination and PCR analyses show that the integrase promotes site-specific integration as well as excision. These reactions occurred without the need to supply integration host factor and excisionase, the accessory proteins that are required for integrase-promoted site - specific recombination in vitro as well as in the natural host Escherichia coli.

5/3,K/7 (Item 1 from file: 73)

DIALOG(R)File 73:EMBASE

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12241142 EMBASE No: 2003353361

New insight into site - specific recombination from Flp recombinase-DNA structures

Chen Y.; Rice P.A.

Y. Chen, Dept. of Biochem./Molecular Biology, University of Chicago, Chicago, IL 60637 United States

AUTHOR EMAIL: yuchen@midway.uchicago.edu

Annual Review of Biophysics and Biomolecular Structure (ANNU. REV.

BIOPHYS. BIOMOL. STRUCT.) (United States) 2003, 32/- (135-159)

CODEN: ABBSE ISSN: 1056-8700

DOCUMENT TYPE: Journal ; Review

LANGUAGE: ENGLISH SUMMARY LANGUAGE: ENGLISH

NUMBER OF REFERENCES: 94

New insight into site - specific recombination from Flp recombinase-DNA structures

The lambda integrase , or tyrosine-based family of site-specific recombinases, plays an important role in a variety of biological processes by inserting, excising, and inverting DNA segments. Flp, encoded by the yeast 2-mum plasmid, is the best-characterized eukaryotic member of this family and is responsible for maintaining the copy number of this plasmid. Over the past several years, structural and biochemical studies have...

MEDICAL TERMS (UNCONTROLLED): site specific recombination

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Set	Items	Description
S1	3444	(SEQUENCE OR SITE) (W) (SPECIFIC (W) RECOMBINATION)
S2	327	(INT (W) RECOMBINASE) OR (LAMBDA (W) INTEGRASE)
S3	24	S2 (S) (MAMMALIAN OR EUKARYOTIC OR MOUSE OR HUMAN)
S4	18	S3 AND S1
S5	7	RD (unique items)

?

COST

16sep04 15:40:04 User259876 Session D670.2

\$1.42 0.443 DialUnits File155

\$1.26 6 Type(s) in Format 3

\$1.26 6 Types

\$2.68 Estimated cost File155

\$3.31 0.590 DialUnits File5

\$3.31 Estimated cost File5

\$3.52 0.359 DialUnits File73

\$2.70 1 Type(s) in Format 3

\$2.70 1 Types
\$6.22 Estimated cost File73
OneSearch, 3 files, 1.392 DialUnits FileOS
\$1.25 INTERNET
\$13.46 Estimated cost this search
\$14.27 Estimated total session cost 1.601 DialUnits

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